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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,834	07/12/2006	Patrick Le Bot	Serie 6485	7769
40582 AIR LIQUIDE	7590 03/18/201	EXAMINER		
Intellectual Prop		PETTITT, JOHN F		
2700 POST OAK BOULEVARD, SUITE 1800 HOUSTON, TX 77056			ART UNIT	PAPER NUMBER
		3744		
			MAIL DATE	DELIVERY MODE
			03/18/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/585,834	LE BOT, PATRICK	
Examiner	Art Unit	
John F. Pettitt	3744	

	John F. Pettitt	3744	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress
THE REPLY FILED <u>25 February 2010</u> FAILS TO PLACE THIS A	APPLICATION IN CONDITION FO	R ALLOWANCE.	
1.  The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following rapplication in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods:	eplies: (1) an amendment, affidavit al (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expiresmonths from the mailing b) The period for reply expires on: (1) the mailing date of this Adno event, however, will the statutory period for reply expire la  Examiner Note: If box 1 is checked, check either box (a) or (I  MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f	dvisory Action, or (2) the date set forth interthan SIX MONTHS from the mailing on. ONLY CHECK BOX (b) WHEN THE	date of the final rejection	in.
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extrunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the siset forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	on which the petition under 37 CFR 1.13 ension and the corresponding amount of hortened statutory period for reply origin	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as
<ol> <li>The Notice of Appeal was filed on A brief in compl filing the Notice of Appeal (37 CFR 41.37(a)), or any exten Notice of Appeal has been filed, any reply must be filed wi AMENDMENTS</li> </ol>	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	s of the date of appeal. Since a
		حط لحصوفون حط فمع الأدرر	
<ol> <li>The proposed amendment(s) filed after a final rejection, be (a) They raise new issues that would require further con (b) They raise the issue of new matter (see NOTE below</li> </ol>	sideration and/or search (see NOT		cause
(c) They are not deemed to place the application in bett appeal; and/or		lucing or simplifying tl	ne issues for
(d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).	orresponding number of finally reje	ected claims.	
4. The amendments are not in compliance with 37 CFR 1.12		mpliant Amendment (I	PTOL-324).
5. Applicant's reply has overcome the following rejection(s):	<del></del>		
6. Newly proposed or amended claim(s) would be allowon-allowable claim(s).	_	•	
7.  For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proved the status of the claim(s) is (or will be) as follows:		pe entered and an ex	xpianation of
Claim(s) allowed: Claim(s) objected to: Claim(s) rejected:			
Claim(s) withdrawn from consideration:			
<ul> <li>AFFIDAVIT OR OTHER EVIDENCE</li> <li>The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).</li> </ul>			
<ol> <li>The affidavit or other evidence filed after the date of filing a entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary</li> </ol>	vercome <u>all</u> rejections under appea and was not earlier presented. Se	ll and/or appellant fail ee 37 CFR 41.33(d)(1	s to provide a ).
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER		•	
<ol> <li>The request for reconsideration has been considered but <u>See Continuation Sheet.</u></li> </ol>		condition for allowan	ce because:
<ul><li>12. Note the attached Information <i>Disclosure Statement</i>(s). (</li><li>13. ☐ Other:</li></ul>	PTO/SB/08) Paper No(s). <u>2/25/10</u>		
/Cheryl J. Tyler/	/John F Pettitt /		
Supervisory Patent Examiner, Art Unit 3744	Examiner, Art Unit 3744		

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments filed 2/25/10 have been fully considered but they are not persuasive.

- 1. Applicant's arguments (page 6-7) are that "mixing column" is a term of art that is readily understood to have a more specific meaning, the applicant attempts to support this by submitting references which employ the term "mixing column". In response to the applicant's arguments, the examiner disagrees that the evidence provided supports the conclusion that a mixing column is a term that must be interpreted to have the meaning that the applicant has outlined previously (a column in which a more easily volatile gaseous fraction is sent opposite a more poorly volatile liquid) because no arguments have been provided showing that such a definition is supported by the references. The reader is left to guess as to why the applicant believes the references support their position and therefore the argument is unpersuasive. Further it is noted that the references invariably explain what occurs in the column they have designated as a "mixing column" because simply stating that the column is a mixing column is not sufficient to convey that the column must have specific mixing other than that the column has mixing.
- 2. Applicant's arguments (page 7, ¶ 2) are that the applicant's specification defines the term "mixing column" by discussing the use of a column as well as the use of an argon column and that such use of the term differentiates the mixing column as a column that is not the argon column. In response to the applicant's arguments, the examiner disagrees as the use of the term in discussing the column does not redefine the term mixing column. Though the specification describes two columns that are identified as a mixing column and an argon column this does not mean that the application has defined the term mixing column to be columns that are not argon columns. Especially considering that either column may be said to have mixing of fluids. The applicant has not redefined the meaning of mixing column to exclude columns operating with argon and therefore the argument is unpersuasive.
- 3. Applicant's arguments (page 7, ¶ 3 page 8) are that the applicant considers the broadest reasonable interpretation of the term "mixing column" to be a column in which a less volatile gas is sent opposite a more poorly volatile liquid and that there must be mixing within the column for the column to be considered a mixing column.

In response to the applicant's arguments, the examiner agrees that the claimed process requires that the mixing column must have mixing therein. The examiner further notes that assuming arguendo that the broadest reasonable interpretation espoused by the applicant is employed, it is noted that within the column (31) of Grenier (US 5735142) there is inherently some vapor that is counter currently flowing in contact with some liquid as gas portions of feed fluid flow upward and liquid portions of feed fluid flow downward due to the cooling of the top of column (31). Therefore, even by the specific definition of the applicant, Grenier (142) clearly teaches a mixing column and thereby the rejection is proper.

If the applicant desires that the process steps of the mixing column have further limitations such as the mixing column having a specified number of inputs or outputs or being in a certain location relative to the double column, the applicant is encouraged to claim such distinctions.